

Appendix 3: Source code drawgraph

```
import cgi
import string
import urllib
import urllib2
import re
import sys
import os

from graphlib import Graph, GraphAlgo, GraphDot

def draw_graph(graphviz):

    edges = []

    #####
    #####Copy content of the dictionary into a list (edges) with node and page
    variables#####
    #####
    for node in graphviz:
        for page in graphviz[node]:
            page = "<" + page + ">"
            node2 = "<" + node + ">"
            edges.append((node2,page))

    #####
    #####Create a graph structure with head-tail representation collected from the
    edges list ###
    #####
    graph = Graph.Graph()

    for head, tail in edges:
        graph.add_edge(head,tail)

    #####
    ##### Decoration of the graph, color and shape
    #####
    #####
    dot = GraphDot.Dot(graph)

    for head, tail in edges:
        dot.node_style(head,shape='doubleoctagon', color='blue')
        dot.node_style(tail, shape='doubleoctagon', color='blue' )

    #####
    #####Save the representation of graph as a textfile(dotfile) and as a picture
    file #####
    #####
    #os.chdir('../')

    dot.save_dot(file_name='graphdot.dot')
```

